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Aziridines

PA Dow Chemical Co.

SO Fr., 5 pp.

DT Patent

LA French

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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AB To 1762 g. refluxing AcOEt containing <100 ppm. H₂O was added over 29 min. 164.5 g. I (R = H) containing 9.5 g. Na derivative of I (R = H) and the mixture refluxed for 7 hrs. while distilling 940 ml. AcOEt-EtOH azeotrope. Distillation gave 185.5 g. I (R = Ac), b₆₃ 99-100°, d₂₀ 1.004, n_{25D} 1.4315. I (R = PrCO), b₁₀ 85°, was similarly prepared in 67.5% yield, d₂₀ 0.958, n_{24D} 1.4331. Using Me methacrylate, stabilized with N,N'-diphenyl-p-phenylenediamine, in place of AcOEt yielded 98.5% I (R = CH₂:CMeCO), b_{0.1} 44-50°, d₂₀ 0.990, n_{20D} 1.4585. The following I were also prepared (R, % yield, b.p./mm., d₂₀, and n_{23D} given): CH₂:CHCO, 100, 37°/0.75, 1.014, 1.4642; Bz, 86.2, 90-100°/0.13, 1.100, 1.5193. III, b_{0.2} 135°, d₂₀ 1.079, n_{23D} 1.4674, was prepared in 58% yield from Et adipate, and reaction of IV (R = H) with AcOEt, gave 68.3% IV (R = Ac), b_{2.25} 45°, n_{23D} 1.4294. The compds. are useful as inhibitors of the decomposition of halogenated degreasing agents, such as trichloroethylene, by Al. The compds. also inhibit the growth of Escherichia coli.